

WHAT IS CLAIMED IS:

1. A method for providing supplementary services in a packet voice network, the method comprising:

- receiving a list of information elements from a sending station;
- inserting the list into a call control message, wherein any supplementary services information included in the information elements is preserved;
- including a locally significant message in a globally significant message, wherein any supplementary services information in the locally significant messages is preserved; and
- sending the call control message and the globally significant message to a receiving station.

2. The method of claim 1 wherein the list of information elements are received as a Q.931 message.

3. The method of claim 1 wherein the inserting the list further comprises appending the information elements to a call control message for a voice over packet network.

4. The method of claim 1 wherein the inserting the list further comprises mapping the information elements into the user information element of an H.225 message.

5. The method of claim 1 wherein the packet voice network further comprises one of the group comprising: Voice over FR, Voice over IP and Voice over ATM.

6. The method of claim 1 wherein the locally significant message further comprises a RELEASE message.

7. The method of claim 1 wherein the locally significant message further comprises a RELEASE COMPLETE message.

8. The method of claim 1 wherein the globally significant message further comprises a DISCONNECT message.

9. The method of claim 1 wherein the globally significant message further comprises a FACILITY message.

10. A network device for providing supplementary services in a packet voice network, comprising:

- a first communication device operable to communicate with a sending node;
- a second communication device operable to communicate with a receiving node; and
- a tandem node operable to transfer supplementary services information from the first communication device to the second communication device such that the

*ISDN
uses
this*

~~c) a tandem node operable to transfer supplementary services information from the first communication device to the second communication device such that the supplementary services information is transferred to the receiving node after the sending node sends a disconnect message.~~

5 11. The device of claim 10, wherein the first and second communication devices further comprise routers.

12. The device of claim 10, wherein the first and second communication devices are part of one router.

13. A computer readable medium containing software code, said code including:

10 a) code operable to receive supplementary services information from a sending station;

b) code operable to insert the supplementary services information into a call control message;

c) code operable to include a locally significant message into a globally significant message; and

15 d) code operable to send the call control message and the globally significant message to a receiving station.

14. The computer readable medium of claim 13, wherein the medium is a downloadable file distributed across a network.

15. The computer readable medium of claim 13, wherein the medium is a computer file transferred from a directly connected computing device.

20 16. A network device operable to provide supplementary services information, comprising:

a) a first means for communicating with a sending node;

b) a second means for communication with a receiving node; and

c) means for transferring a locally significant message from the first means to the second means.

25 17. A network device operable to provide supplementary services information, comprising:

a) a first communication device operable to communicate with a sending node;

b) a second communication device operable to communicate with a receiving node;

30 c) wherein the first network device is operable to transfer supplementary services information to the second communication device such that the supplementary services

information is transferred to the receiving node after the sending node sends a disconnect message.